

1. Record Nr.	UNINA9910437623703321
Titolo	Biology and Regulation of BloodTissue Barriers // edited by C. Yan Cheng
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-4614-4711-9
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (380 p.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 763
Disciplina	362.17 362.1783
Soggetti	Molecular biology Medicine Molecular Medicine Biomedicine, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Regulation of Permeability Across the BloodBrain Barrier -- Drug Transporters at Brain Barriers: Expression and Regulation by Neurological Disorders -- The BloodRetina Barrier: Tight Junctions and Barrier Modulation -- The Inner BloodRetinal Barrier: Molecular Structure and Transport Biology -- Endothelial and Epithelial Barriers in GraftVersusHost Disease -- Structure and Regulation of Intestinal Epithelial Tight Junctions: Current Concepts and Unanswered Questions -- Polarity Protein Complex Scribble/Lgl/Dlg and Epithelial Cell Barriers -- The BloodBiliary Barrier, Tight Junctions and Human Liver Diseases -- The BloodFollicle Barrier (Bfb) in Disease and in Ovarian Function -- Physiology and Pathophysiology of the Epithelial Barrier of the Female Reproductive Tract: Role of Ion Channels -- The BloodEpididymis Barrier and Human Male Fertility -- BloodTissue Barriers: Morphofunctional and Immunological Aspects of the BloodTestis and BloodEpididymal Barriers -- Gap Junctions and BloodTissue Barriers -- Transcriptional Regulation of Cell Adhesion at the BloodTestis Barrier and Spermatogenesis in the Testis -- cSrc and cYes are Two Unlikely Partners of Spermatogenesis and Their Roles in BloodTestis Barrier Dynamics -- Role of PGlycoprotein at the BloodTestis Barrier on

Adjudin Distribution in the Testis: a Revisit of Recent Data -- The Apical Ectoplasmic Specialization Blood-Testis Barrier Functional Axis is a Novel Target for Male Contraception.

---

Sommario/riassunto

This book was written by many outstanding investigators who have spent decades to study different aspects of blood-tissue barrier function. They have summarized some of the latest and fascinating development in their fields of research including the blood-brain barrier, the blood-retinal barrier, the gut barrier, the blood-biliary barrier, the blood-follicle barrier, the blood-epididymis barrier, the blood-testis barrier, the tight junction barrier in general as well as barriers in the female reproductive tract. Included are also chapters that focus on topics that are physiologically applicable to all blood-tissue barriers. Many of these chapters also include information on specific human diseases, such as pathological changes of the gut barrier that cause bowel disorders resulting from inflammation of the epithelial lining in the intestine, and infertility in men as a result of disruption of the blood-epididymal and/or blood-testis barriers; and on new therapeutic approaches (e.g., drug delivery across the blood-brain and the blood-retinal barriers).

---